

**Odessa National Medical University**  
**Department of Obstetrics and Gynecology**

**SYLLABUS**  
**" Emergencies in obstetrics "**  
**(Elective discipline)**

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Workplace	Conference hall (Pastera Street, 9)
Consultations	Face-to-face consultations: Wednesday, Friday–14.00-16.00 Online consultations: Tuesday, Thursday - 14.00-16.00 (Microsoft Teams)

## MAIN CHARACTERISTICS OF THE EDUCATIONAL DISCIPLINE

Scope of the academic discipline

Number of credits/hours – **4.0/120**, of which:

Lectures (hours) are not provided

Practical lessons (hours) – **60**

Independent work (hours). - **60**

Type of control - Credit

### COMMUNICATION

Communication with graduate students is carried out through face-to-face meetings. In case of transition to distance learning, communication with graduate students will be carried out using e-mail and the Microsoft Teams program.

### COURSE ABSTRACT

#### *Subject of discipline study*

The subject of study of the educational discipline "Emergencies in Obstetrics" is pathological processes associated with obstetric and gynecological complications (massive bleeding, preeclampsia and eclampsia, HELLP syndrome, pathological and operative childbirth, premature birth, caesarean section, shock and septic conditions, which are the most frequent causes of maternal and perinatal morbidity and mortality.

*Course prerequisites and post-requisites* (The place of the discipline in the educational program)

The study of the educational discipline: "Emergencies in obstetrics" is based on the study of the courses "Obstetrics and gynecology" and "Endoscopy in gynecology".

#### *The purpose of the course*

The purpose of studying the educational discipline "Emergencies in obstetrics" is to deepen each postgraduate student's theoretical knowledge and practical skills for independent medical activity in order to provide secondary and tertiary care in health care institutions for emergency conditions that complicate the course of pregnancy, childbirth and the postpartum period, gynecological pathology, solving significant problems in the field of professional activity, science and innovation, expansion and reassessment of already existing knowledge and professional practice.

#### *Course tasks:*

1) to acquire theoretical knowledge and practical skills regarding the diagnosis and treatment of emergency conditions during pregnancy, childbirth and the postpartum period, with gynecological diseases;

- 2) to acquire in-depth theoretical knowledge and practical skills in related specialties;
- 3) to develop professional skills in teaching the discipline "Emergencies in obstetrics";
- 4) to acquire skills in using modern information technologies in teaching obstetrics and gynecology;
- 5) master the methods of scientific analysis of research results from the standpoint of evidence-based medicine.

### ***Expected results***

According to the results of studying the discipline, postgraduate students should **know:**

- 1) modern terminology and classifications, diagnosis, treatment and prevention of emergency conditions in obstetric and gynecological practice, as well as the condition of the fetus and newborn,
- 2) basic methods of medical and surgical treatment for emergency conditions in obstetrics and gynecology,
- 3) modern approaches and methods of conducting interdisciplinary scientific research,
- 4) the theory of the cognitive process and the technology of the pedagogical process;
- 5) modern achievements in the field of scientific research,
- 6) methodology of scientific research and presentation of its results from the standpoint of evidence-based medicine.

### ***To be able to:***

- 1) Carry out continuous professional development as an obstetrician-gynecologist,
- 2) Carry out critical analysis and interpretation of clinical, laboratory, instrumental, biochemical, morphological research data;
- 3) Timely diagnosis of emergency conditions (hemorrhagic, anaphylactic, septic shock, thromboembolism, CVD syndrome, massive obstetric bleeding, preeclampsia, eclampsia, fetal distress)
- 4) Carry out management of pathological pregnancy, childbirth and the postpartum period, assess the state of the fetus and newborn,
- 5) Timely prevention, diagnosis and treatment of pregnancy complications (abortion, premature birth, premature rupture of membranes, preeclampsia/eclampsia, obstetric bleeding, placentation abnormalities, fetal growth retardation, fetal distress, multiple pregnancy)
- 6) Carry out diagnostics, differential diagnostics and provide emergency care for ectopic pregnancy, intra-abdominal bleeding, symptoms of "acute abdomen" in women,
- 7) Diagnose the causes of uterine bleeding, prescribe the necessary treatment, resolve issues of family planning and contraception,
- 8) Carry out diagnosis, differential diagnosis and treatment of septic complications from the standpoint of evidence-based medicine,

- 9) Analyze medical information in modern directories, scientific and professional periodicals;
- 10) Receive and interpret new scientific facts that expand the scope of knowledge in the investigated problem.

## **COURSE DESCRIPTION**

### ***Forms and methods of education***

The course is taught in the form of practical classes (60 hours), as well as through the organization of independent work of graduate students (60 hours); total – 120 hours (4 credits).

*In the process of conducting practical classes, the following teaching methods are expected to be used:*

The study of the discipline is implemented on the basis of the following teaching methods: - according to the dominant means of teaching: verbal, visual;

- drawing up graphic schemes;
  - solving creative tasks;
  - blitz survey;
  - group discussions on problem situations;
  - performance of written tasks;
  - individual control interview;
  - role-playing (business) games;
  - situational tasks ("case method");
  - the "brainstorming" teaching method, which encourages the listeners to express themselves
- a creative approach and find alternative methods of solving proposed tasks through free expression of thoughts,
- simulation training on simulators.

### ***Content of the educational discipline***

The program of the educational discipline consists of the following topics:

Topic 1: Emergency care for bleeding in obstetrics and gynecology.

Topic 2: Emergency care for hypertensive disorders during pregnancy, childbirth and the postpartum period

Topic 3: Operative obstetrics and obstetric traumatism.

Topic 4: Emergency care for septic conditions and amniotic fluid embolism.

## **ASSESSMENT**

Current control is carried out at practical classes in accordance with formulated tasks for each topic. The educational activities of postgraduate students (recipients) are monitored in practical classes during ongoing monitoring in accordance with specific goals and during the individual work of the teacher with the student. When evaluating educational activities, preference is given to standardized methods

control: testing, control written works, structured according to the procedure of control of practical skills in conditions close to real ones. When mastering each topic of the current educational activity, the student is given grades on a 4-point traditional scale. The current academic performance is calculated as the average current score, i.e. the arithmetic average of all grades received by a graduate student (student) on a traditional scale, rounded to 2 (two) decimal places, for example 4.75.

***Evaluation of individual work:***

Evaluation of the postgraduate student's individual work, which is provided for by the topic together with classroom work, is carried out during the current control of the topic in the corresponding classroom session, as well as at the final control.

The assessment of success in the discipline is a rating and is given on a 200-point scale and is determined according to the ECTS system and the traditional scale adopted in Ukraine.

***Forms and methods of final control***

The final control in the discipline "Emergency conditions in obstetrics" is creditable.

***Scheme of calculation and distribution of points received by graduate students***

After completing the study of the discipline, the current academic performance is calculated as the average current score, that is, the arithmetic average of all grades received by the graduate student on a traditional scale, rounded to two decimal places. Final control (credit) graduate student (acquirer) It is allowed only if there is no academic debt and the average score for the current educational activity is not lower than 3.00. The grade in the discipline is the arithmetic average of two components:

- 1) the average current grade as the arithmetic average of all current grade grades;
- 2) traditional assessment for credit

The obtained average score for the discipline is converted into a score on a 200-point scale by multiplying the arithmetic average by 40.

A scale for assessing the level of mastery of the discipline

Assessment on a 200-point scale	Assessment on a national scale	
185 - 200	Excellent	5
151 - 184	Good	4
120 – 150	Satisfactorily	3
<120	Unsatisfactorily	2

Current control is carried out at practical classes in accordance with formulated tasks for each topic. When evaluating educational activities, preference is given to standardized methods of control: oral survey, structured written works, discussions, role-playing games, reports. When mastering each topic for the current educational activity, the student is given grades on a 4-point traditional scale. The current academic performance is calculated as the average current score, i.e. the arithmetic

average of all grades received by the graduate student (student) on a traditional scale, rounded to 2 (two) decimal places, for example 4.75.

Assessment of current discipline control:

The meaning of the "**excellent**" assessment: the postgraduate student shows special creative abilities, knows how to acquire knowledge independently, finds and processes the necessary information without the help of a teacher, knows how to use the acquired knowledge and skills to solve problems, is able to produce innovative ways of solving problems, convincingly argues answers, independently reveals his own gifts and inclinations.

The meaning of the grade "**good**": the postgraduate student has a good command of the studied material, applies it in practice, solves exercises and problems in standard situations, independently corrects the mistakes made, the number of which is insignificant.

The value of the rating is "**satisfactory**": the postgraduate student is able to master a significant part of the theoretical material, but mainly in a reproductive form, demonstrates knowledge and understanding of the main provisions, can analyze the educational material with the help of the teacher, correct errors, among which there are a significant number of essential ones.

The value of the assessment is "**unsatisfactory**": the postgraduate student has mastered the material at the level of individual fragments, which constitute a small part of the educational material.

Only those postgraduate students who have no academic debt and have an average score for current academic activities of at least 3.00 are admitted to the final certification.

### ***Individual work***

Assessment of the individual work of postgraduate students and applicants, which is provided for in the topic along with classroom work, is carried out during the current control of the topic in the corresponding classroom session, as well as at the final control (credit).

### **COURSE POLICY ("rules of the game")**

#### **Deadlines and Rescheduling Policy**

Tasks must be completed on time according to the deadline.

For untimely completion of the assignment, the graduate student receives an unsatisfactory grade. If the student of higher education was absent from classes for any reason, then the practice is carried out within the deadlines set by the teacher in accordance with the "Regulations on the organization of the educational process at

ONMedU" (link to the regulations on the university's website <https://onmedu.edu.ua/wp-content/uploads/2020/01/osvitnij-proces.pdf>). Reassembly is carried out in accordance with the approved schedule.

### ***Academic Integrity Policy***

The policy of the educational component is based on the principles of academic integrity (link to the regulations on the university website <https://onmedu.edu.ua/wp-content/uploads/2020/07/polozhennja-pro-dobrochesnist.pdf>) and is determined by the system of requirements that the teacher presents to the applicant when studying the educational component:

independent performance of educational tasks, tasks of current and final control of learning results (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities);

references to sources of information in case of use of ideas, developments, statements, information.

### ***Attendance and Tardiness Policy***

Attendance and work in classroom classes (practical classes) is mandatory for obtaining a satisfactory grade. A graduate student is allowed to be late for no more than 10 minutes.

#### ***Mobile devices***

It is permissible to use mobile devices during the lesson with the teacher's permission.

### ***Behavior in the audience***

While in the audience, the following values should be cultivated: respect for colleagues; tolerance for others; receptivity and impartiality; argumentation of agreement or disagreement with the opinion of other participants in the discussion, as well as one's own opinion; respecting the dignity of the opponent's personality during communication; compliance with the ethics of academic relationships.

### **Recommended literature**

Main (basic):

Main (basic):

1. Law "On Higher Education" - <http://zakon4.rada.gov.ua/laws/show/1556-18>.
2. Order of the Ministry of Education and Science of Ukraine No. 584 of April 30, 2020 "On Amendments to the Methodological Recommendations on the Development of Higher Education Standards"

3. Standards and recommendations for quality assurance in the European Higher Education Area (ESG) - [https://ihed.org.ua/wp-content/uploads/2018/10/04\\_2016\\_ESG\\_2015.pdf](https://ihed.org.ua/wp-content/uploads/2018/10/04_2016_ESG_2015.pdf)
4. Obstetrics and gynecology (in 2 books): a textbook (B.M. Ventskiivskiyi, V.I. Hryshchenko, M.O. Shcherbina)// K.: Medicine, 2020. - 376 p.
5. Academic lectures on obstetrics and gynecology / Ed. Acad. Yu.G. Antipkin. - K.: KRIEYTYV MEDIA LLC, 2021. - 424 p.
6. Obstetrics and gynecology: in 4 volumes. / V.M. Zaporozhian, V.K. Chaika, L.B. Markin and others; under the editorship V.M. Confused – 2nd ed., corr. - K.: VSV "Medicine", 2017. - 1032 p.
7. Obstetrics: a textbook / V.I. Pyrogoval, O.V. Bulavenko, Yu.P. Vdovichenko. under the editorship Pyrogoval V.I. – Vinnytsia: Nova kniga, 2021. – 472 p.
8. Obstetrics and gynecology: in 2 books. Book 1. Obstetrics. Textbook (Universities of III-IV levels of accreditation/Edited by V.I. Hryshchenko, M.O. Shcherbina. - 2nd ed., corrected. 2017. - 376 p.
9. Zaporozhan V.M., Tarabrin O.O. Simulation medicine. Experience. Acquisition Prospects. Practical advisor. Sumy: PF Publishing House "University Book", 2018. - 240 p.
10. Training manual on Obstetrics / edited by I.B. Ventskiivska V.P. Lakatosha, V.M. Kushcha. - K., 2018. - RA Harmony - 210 p.
11. Oxford Textbook of Obstetrics and Gynecology/Ed.by S.Arulkumaran, W.Ledger, L.Denny, S. Doumouchsis. – Oxford University Press, 2020- 928.
12. Clinical obstetrics and gynecology: training. help.: trans. 4th Eng.. ed. / Brian A. Magowan, Philip Owen, Andrew Thomson; of science ed.. trans. Mykola Shcherbina. - K.: VSV "Medicine", 2021. - X, 454 p.
13. Basics of perinatal medicine: teaching. manual / M. O. Shcherbina, O.O. Kuzmina. - K.: "Medycyna", 2017. - 152 p.
14. Boyko V.I. Obstetric bleeding: education. manual / V. I. Boyko, T. V. Babar. Sumy: Sumy State University, 2017. – 118 p.
15. Kamynskiyi V.V., Golyanovskiyi O.V., Tkachenko R.O., Chernov A.V. Massive obstetric bleeding / Under the editorship of V.V. Kamynskiyi. - Kyiv: RVA "Triumph", 2010. - 232 p.
16. Emergencies in obstetrics practice: practical guidance / A. Ya. Senchuk, V. G. Ginzburg, I.I. Chermak and others.; under the editorship Prof. AND I. Senchuka - Kyiv: Phoenix, 2019. - 336 p.
17. Gladchuk I.Z. Intra-abdominal bleeding in gynecology: monograph / I. Z. Gladchuk, O. Ya. Nazarenko, R. O. Tkachenko. – Odesa: ONMedU, 2021. – 112 p.
18. Unified clinical protocol of primary, secondary (specialized) and tertiary (highly specialized) medical care "Caesarean section" (Order of the Ministry of Health of Ukraine dated January 5, 2022, No. 8).
19. Unified clinical protocol of primary, secondary (specialized) and tertiary (highly specialized) medical care "Hypertensive disorders during pregnancy, childbirth and the postpartum period" (Order of the Ministry of Health of Ukraine dated January 24, 2022 No. 151).



20. Nitochko K.O. Premature rupture of fetal membranes at different stages of pregnancy. Algorithms of diagnosis, management of pregnancy and childbirth: method. recommendations / K.O. Nitochko, G.S. Manasova, I.V. Shpak, D.M. Zhelezov; Odessa. national honey. Univ. – Odesa: ONMedU, 2022. – 43.
21. Manasova G.S. Problematic issues of pregnancy and childbirth in women with operated uterus syndrome: method. recommendations / H.S. Manasova, O. O. Zelinsky, M. V. Shapoval, O. V. Zhovtenko, etc.; Odessa. national honey. Univ. – Odesa: ONMedU, 2019. – 46 p.
22. Manasova G.S. Obstructive childbirth: modern approaches to terminology, classification. Peculiarities of the tactics of conducting obstructive childbirth and the postpartum period: method. recommendations / H.S. Manasova, O. O. Zelinsky, M. V. Shapoval, O. V. Zhovtenko, etc.; Odessa. national honey. Univ. – Odesa: ONMedU, 2019. – 53 p.

Additional:

1. Creasy and Resnik's Maternal-Fetal Medicine: Principles and Practice by Robert Resnik, Charles J. Lockwood: Elsevier, 2021.
2. Early pregnancy loss. Queensland Clinical Guidelines. MN17.29-V4-R22 May 2017. – P. 1-39.
3. Practice Bulletin: Prelabor Rupture of Membranes. ACOG. Practice Bulletin. Clinical management guidelines for obstetrician–gynecologists. Number 188, January 2018. OBSTETRICS & GYNECOLOGY, Vol. 131, no. 1: e1 – 14.
4. Prelabor Rupture of Membranes. ACOG Practice Bulletin, Number 217. Obstetrics & Gynecology: March 2020 - Volume 135 - Issue 3 – p. e80-e97. doi: 10.1097/AOG.0000000000003700
5. Williams Obstetrics, 25<sup>th</sup> Edition by F. Gary Cunningham, Kenneth Leveno, et al.-Mac Grow Hill Education.-2021.
6. Guidelines of the Royal College of Obstetricians and Gynecologists of Great Britain "Diagnosis and treatment of ectopic pregnancy" // Female doctor. – 2017. – No. 4 (72). - P. 56 - 68.
7. Ectopic pregnancy and miscarriage: diagnosis and initial management. NICE guideline [NG126]. Published: 17 April 2019. Last updated: 24 November 2021.
8. International Journal of Obstetrics and Gynecology. RCOG - Royal College of Obstetricians and Gynecologists of Great Britain. Instruction No. 73. June 2019. Thomson AJ on behalf of the Royal College of Obstetricians and Gynaecologists. Management of women who arrived at term after 24+0 weeks of gestation with suspicion of premature rupture of membranes. BJOG 2019; 126: e152-166. DOI: 10.1111/1471-0528.15803.
9. International Guidelines for Management of Sepsis and Septic Shock (Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016) [http://journals.lww.com/ccmjournals/Fulltext/2017/03000/Surviving\\_Sepsis\\_Campaign\\_International.15.aspx](http://journals.lww.com/ccmjournals/Fulltext/2017/03000/Surviving_Sepsis_Campaign_International.15.aspx)

10. NICE guideline Caesarean birth (NG 192): 31 березня 2021 року (інтернет-посилання на документ: [www.nice.org.uk/guidance/ng192](http://www.nice.org.uk/guidance/ng192)).
11. World Health Organization. (2018). WHO recommendations Uterotonics for the prevention of postpartum haemorrhage: Web annex 7: Choice of uterotonic agents. World Health Organization. <http://www.who.int/iris/handle/10665/277283>. License: CC BY-NC-SA 3.0 IGO.
12. Bates Sh.M., Rajasekhar A., Middeldorp S. et al. (2020) American Society of Hematology 2018 guidelines for management of venous thromboembolism: venous thromboembolism in the context of pregnancy. Blood Adv., 2(22): 3317–3359 (<https://doi.org/10.1182/bloodadvances.2018024802>) <https://ashpublications.org/bloodadvances/article/2/22/3317/16094/American-Society-of-Hematology-2018-guidelines-for>).

Information resources:

<http://www.moz.gov.ua>

<https://www.dec.gov.ua/mtd/home/>

[https://www.dec.gov.ua/cat\\_mtd/galuzevi-standarti-ta-klinichni-nastanovi/](https://www.dec.gov.ua/cat_mtd/galuzevi-standarti-ta-klinichni-nastanovi/)

<http://www.drlz.com.ua/>

<https://www.who.int/ru>

[https://www.gfmer.ch/Guidelines/Obstetrics\\_gynecology\\_guidelinesTemplate.htm](https://www.gfmer.ch/Guidelines/Obstetrics_gynecology_guidelinesTemplate.htm)

<https://www.cochrane.org>

<https://www.acog.org>

<https://www.ebcog.org>

<https://www.uptodate.com>

<https://www.acog.org>

<https://www.online.lexi.com>

<https://www.ncbi.nlm.nih.com>

<https://www.thelancet.com>

<https://www.rcog.org.uk>

<https://www.npwh.org>